

ONI DECLASSIFICATION/RELEASE INSTRUCTIONS ON FILE

THIS DOCUMENT CONTAINS CODE WORD MATERIAL

1
DOCUMENT NO. _____
NO CHANGE IN CLASS.
11. DECLASSIFIED
CLASS. CHANGED TO: TS S C
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TABLE 2
Approved For Release 2001/08/31 : CIA-RDP79S01100A000200110002-5
Characteristics Selected Submarines

	Year Name Unit	1925 Harwhal SS167	1929 Dolphin SS169	1931 Cachalot	1932 Soviet S-1 Series 9	1933 Porpoise SS172	1938-40 Wk II Fleet Type	1951 EB Des 231 SA both based on Mack- eral SS-234 design in 1939	1957 EB Des 231 - J	1948 Tang. SS 563	Estimated Percentages for "W" Class
1. Displacement, light ship Condition "A"	Tons salt water					1260	1520			1610	750
2. % Condition "N"						89	83			90	83
3. Displacement, Standard	Tons salt water	2730	1540	1110	780	1314	1570	825	900	1556	600
4. % Condition "N"		90	89	89	93	93	86	87	89	93	89
5. Displacement, surface diving trim, normal fuel. Condition "M"	Tons salt water	3033	1716	1240	840	1416	1830	950	1010	1786	900
6. Displacement, surface diving trim, maximum fuel. Condition "M"	Tons salt water				960	1650	2020			2040	1330
7. % Condition "M"					115	116	110			114	115
8. Displacement, submerged. Condition "M-sub" or "N-sub"	Tons salt water	4004	2860	1662	1070	1934	2428	1400	1460	2270	1180
9. % Condition "M"		133	111	134	128	137	139	148	145	127	131
10. Normal Fuel	Tons diesel F.O.				24	90	203	54	149	125	72
11. % Condition "N"					3	6	11	6	15	7	8
12. Fuel Ballast	Tons diesel F.O.				100	195	157	-	-	215	108
13. % Condition "N"					12	14	9	-	-	12	12
14. Total Fuel	Tons diesel F.O.				124	285	360	54	149	340	180
15. % Condition "N"					15	20	20	6	15	19	20
16. Displacement, main ballast fuel ballast and safety tanks	Tons salt water	971	524	422	230	518	598	450	450	484	280
17. % Condition "N"		32	31	34	27	36	33	48	45	27	31
18. Displacement, main ballast and safety.	Tons Salt Water	971	524	422	110	284	408	450	450	230	150
19. % Condition "N"		32	31	34	13	20	22	48	45	13	17
Length overall	feet				255'-10"	301	312	243	247	269	240
Beam	feet				21'	25	27	22	22	27	22
Draft	feet				14'-5"	16	17	13'-10"	14'-2"	19	15
Block Coef. (Con. M)	--				.43	.48	.49	.45	.46	.515	.455
Length Beam ratio					11.6		11.6	11.	11.2	10	10.9
Displacement Length ratio	Δ (Tons) ²				57		67.5	66	67	105	74

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